IRFP-1325.02 (REV. 5/97) Previously RF-46522

CORRES. CONTROL INCOMING LTR NO.

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DUE DATE



Department of Energy

ROCKY FLATS FIELD OFFICE P.O. BOX 928 GOLDEN, COLORADO 80402-0928

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Reviewed for Addressee Corres. Control RFP 5/23/97

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DOE ORDER#

Mr. LeRoy Moore Rocky Mountain Peace and Justice Center P.O. Box 1156 Boulder, Colorado 80306

Dear Mr. Moore:

In a letter to me dated April 9, 1996, you transmitted several requests pursuant to Dr. Bruce Honeyman's presentation on March 31, 1997, regarding the Actinide Migration Panel. This correspondence responds to those requests.

In answer to your first request for mapping data for plutonium at the Rocky Flats Environmental Technology Site, (Site) I have enclosed several items. Two enclosed maps give the locations of sampling stations and individual samples of soil and sediment taken at the Site. The enclosed tables give sampling data for plutonium, americium and uranium taken from these sampling sites. Finally, the soil sampling data have been placed on the enclosed diskettes in dBase IV format.

In your second request, you asked for what lies behind Dr. Honeyman's estimate that one to ten microcuries of plutonium were mobilized during the May 1995 storm at the Site. I have enclosed Dr. Honeyman's calculations. In short, Dr. Honeyman tried to bound the range of possible amounts of plutonium transport by considering how much sediment could be transported during this type of storm, the amount of soil that was transported within the drainage, and the plutonium contents of these soils. Please bear in mind that Dr. Honeyman's calculations are preliminary, and that one of the goals of the Actinide Migration Panel is to better define the physical and chemical factors that influence plutonium mobility and migration in the environment at the Site. We expect that this information, in turn, will help guide future decisions regarding environmental management and environmental restoration.

The more specific products that we expect the Actinide Migration Panel to provide during this fiscal year are:

1) a report compiling the existing data regarding actinide migration;

2) collection of soil and sediment samples from various Site locations, followed by analysis to determine chemical speciation and soil/water partitioning;

3) a preliminary assessment of soil loss rates; and,

4) recommendations for additional data collection.

In addition to these deliverables, a conceptual model for environmental actinide transport at the Site is being prepared, as well as a work scope document for chemical speciation and soil/water partitioning. I will provide these to you and other interested persons as soon as they are available.

ADMIN RECORD

I hope this information adequately responds to your request. If you have any questions, or would -- like more information, please call me at (303) 966-6246. Thank you.

Sincerely,

ohn J. Rampe Environmental Restoration Program Coordinator Rocky Flats Field Office

Enclosures

cc (w/o Enclosures):

P. Golan, AMPPI, RFFO

J. Legare, AMEC, RFFO
J. Karpatkin, OCED, RFFO
M. Konczal, OCED, RFFO
N. Castaneda, CD, RFFO

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